

Chapter 8. State Indicators

8-40 Federal R&D Obligations per Employed Worker

Description

This indicator represents how federal R&D obligations are disbursed geographically relative to the size of a state's employed civilian workforce. Federal R&D dollars are attributed to the states in which the recipients are located.

Federal obligations for R&D come from the National Center for Science and Engineering Statistics and cover data reported by 11 federal agencies. The Department of Defense (DoD) disburses the most federal R&D funding, approximately 50% of the total. The geographic distribution of DoD funding for development to industry reflects the location of prime contractors only, not the subcontractors who perform much of the R&D. A high value may indicate the existence of a number of large prime contractors or major federally funded R&D facilities in a state.

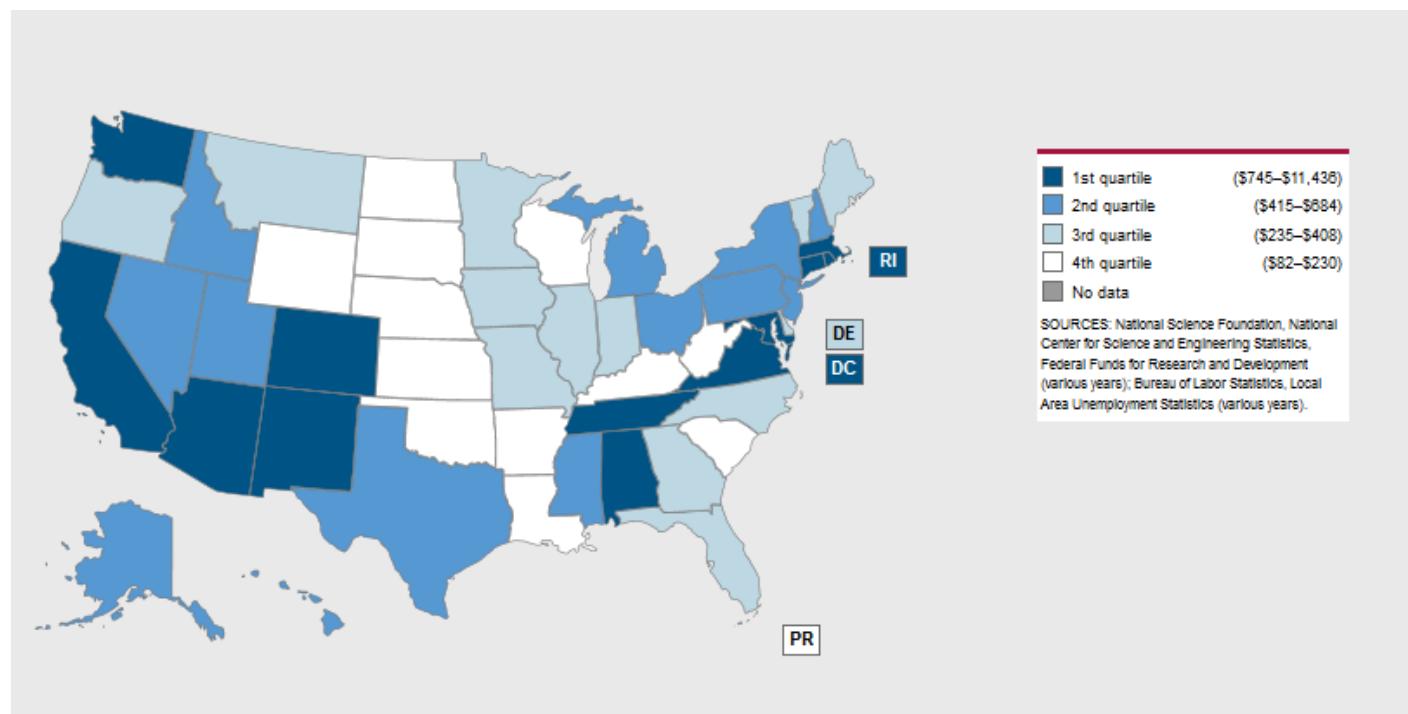
The state workforce estimates are provided by the Bureau of Labor Statistics (BLS). They represent the employed component of the civilian labor force and are not seasonally adjusted. BLS assigns workers to a location based on residence. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

Findings

- Federal R&D obligations have increased from about \$101 billion in 2003 to about \$123 billion in 2013; in constant dollars this corresponds to a decrease of approximately 1%.
- In 2013, the national average amount of federal R&D obligation per employed worker was \$851, a 15% increase over the 2003 value of \$737. However, in constant dollars the national average decreased by 6%.
- Federal R&D obligations in 2013 varied greatly among the states, ranging from \$132 to \$5,350 per civilian worker. Higher values were found in the states surrounding the District of Columbia and in sparsely populated states with national laboratories or federal facilities.
- In 2013, 10 states plus the District of Columbia exceeded the national average federal R&D obligations per worker (\$851).

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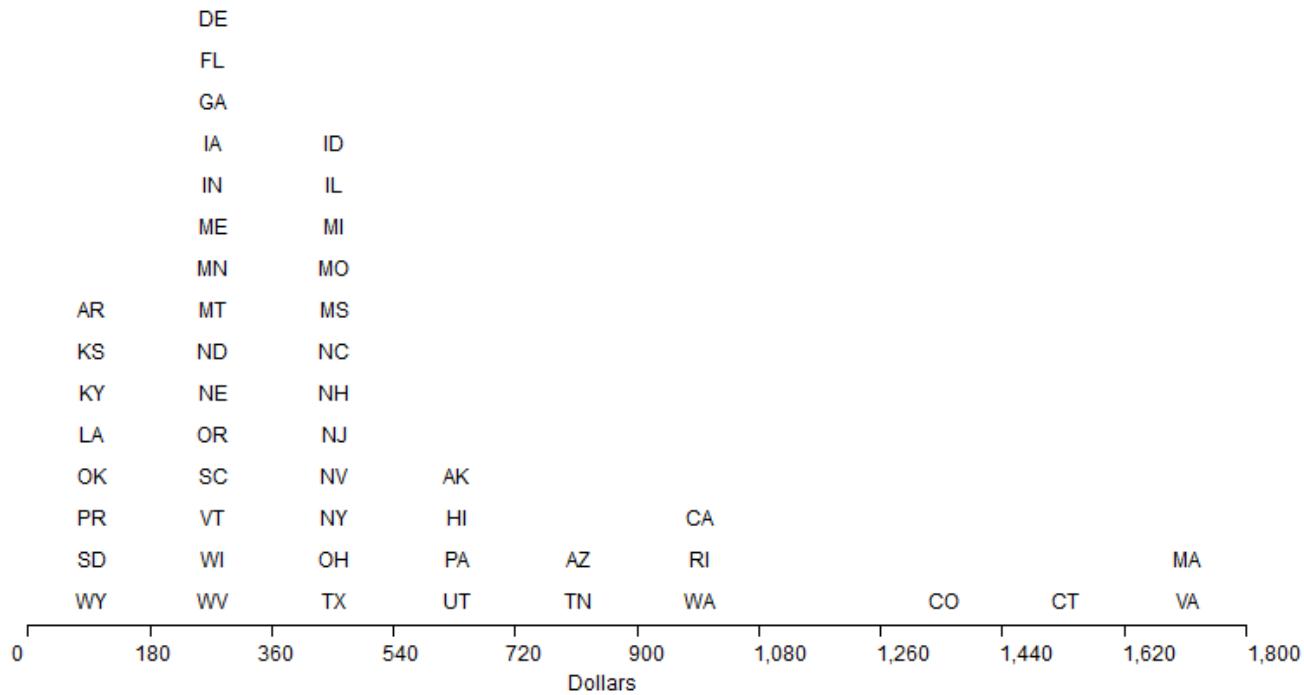
Year: 2013



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Distribution of states across indicator values



Histograms do not display states with extreme values. Please consult the data tables for exact indicator values for each state.

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Table 8-40 Federal R&D Obligations per Employed Worker

State	Federal R&D obligations/employed worker (Dollars)												
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
United States	536	541	530	527	516	522	530	545	541	602	670	737	790
Alabama	1,184	1,158	957	994	1,102	1,092	986	886	820	1,224	1,380	1,612	1,507
Alaska	355	340	563	344	326	344	362	387	519	846	991	1,306	1,480
Arizona	368	293	405	428	327	332	435	473	478	764	906	925	996
Arkansas	64	72	77	83	125	81	83	89	97	154	118	122	120
California	1,153	1,077	807	897	885	929	805	1,003	924	803	1,192	1,253	1,181
Colorado	853	735	695	514	619	626	600	633	610	631	749	742	864
Connecticut	342	311	442	550	485	508	416	384	468	808	1,660	1,225	1,259
Delaware	124	157	138	156	176	132	119	136	176	205	201	240	222
District of Columbia	7,536	8,614	8,691	10,065	9,782	8,582	8,342	8,553	8,336	9,546	10,980	10,459	11,573
Florida	464	442	447	359	435	474	383	310	302	362	332	367	406
Georgia	794	928	1,628	1,246	1,139	1,037	883	507	652	841	542	510	450
Hawaii	270	202	254	252	264	267	291	349	404	747	744	716	827
Idaho	602	583	410	371	419	342	345	324	346	325	364	334	432
Illinois	166	171	189	189	185	190	191	213	241	299	291	329	317
Indiana	137	184	138	143	147	136	125	137	169	189	179	190	186
Iowa	135	144	147	138	138	147	152	170	178	232	295	326	352
Kansas	73	69	66	93	163	192	113	139	165	230	217	198	208
Kentucky	43	51	52	42	44	50	117	78	135	199	175	134	136
Louisiana	96	87	118	93	123	111	116	113	129	144	230	240	233
Maine	101	112	142	89	91	110	170	235	381	695	396	257	321
Maryland	2,339	2,902	2,622	2,853	2,586	2,787	3,015	3,035	3,247	3,478	2,706	2,914	4,558
Massachusetts	1,108	1,203	1,065	1,096	1,031	1,082	964	964	1,405	1,382	1,514	1,702	1,852
Michigan	206	200	171	150	153	155	157	170	202	246	267	363	238

State	Federal R&D obligations/employed worker (Dollars)												
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Minnesota	195	186	194	227	267	235	305	330	293	329	422	317	303
Mississippi	234	229	219	178	211	241	232	288	332	340	523	969	1,297
Missouri	295	289	864	589	458	404	334	331	317	324	437	473	1,077
Montana	184	174	139	153	148	185	187	217	237	308	255	292	413
Nebraska	86	93	100	96	99	92	94	103	113	158	167	181	226
Nevada	682	567	456	463	299	328	314	285	267	342	321	385	492
New Hampshire	274	410	368	352	437	444	419	444	534	704	466	756	613
New Jersey	442	383	366	336	322	326	360	650	480	408	515	510	549
New Mexico	3,211	3,273	2,592	2,625	2,593	2,507	2,414	2,619	2,749	3,544	3,483	3,689	3,945
New York	382	316	332	319	304	293	299	311	343	405	439	505	511
North Carolina	207	209	208	231	220	235	240	257	267	353	357	406	419
North Dakota	180	162	153	144	137	155	153	180	193	235	319	323	319
Ohio	366	374	331	340	314	346	1,019	669	390	548	431	539	508
Oklahoma	88	82	97	107	91	104	112	104	144	201	172	358	310
Oregon	157	154	179	178	190	194	208	241	271	306	297	303	296
Pennsylvania	329	467	359	430	340	330	326	328	409	471	553	685	635
Rhode Island	805	1,029	907	1,074	1,195	807	759	759	802	843	959	1,066	1,212
South Carolina	103	102	115	98	105	91	101	114	130	170	202	244	203
South Dakota	69	76	72	71	92	110	118	99	97	137	145	134	170
Tennessee	290	283	265	225	213	215	231	250	302	381	420	411	507
Texas	345	298	416	452	381	387	428	394	304	319	353	532	533
Utah	371	331	341	377	350	309	371	282	277	379	410	709	1,012
Vermont	178	210	161	173	152	158	179	189	224	346	414	607	1,245
Virginia	1,014	1,063	1,142	1,029	1,400	1,463	1,380	1,670	1,408	1,407	1,730	1,864	1,999
Washington	369	352	377	430	425	432	429	445	464	606	709	843	771
West Virginia	241	296	298	398	346	260	328	302	308	489	338	519	426
Wisconsin	121	134	133	122	117	116	116	132	147	170	208	229	224
Wyoming	183	210	154	146	154	117	137	141	137	143	153	164	180

State	Federal R&D obligations/employed worker (Dollars)												
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Puerto Rico	NA	NA	49	43	46	52	58	64	70	80	117	95	84

NA = not available.

NOTES: Only 11 agencies are required to report federal R&D obligations: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security (established in 2002), the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. These obligations represent approximately 98% of total federal R&D obligations. Federal R&D obligations are reported in current dollars. United States total includes obligations for which the location of performance cannot be determined. Workforce represents the employed component of the civilian labor force and is reported as annual data not seasonally adjusted.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, Federal Funds for Research and Development (various years); Bureau of Labor Statistics, Local Area Unemployment Statistics (various years).

Science and Engineering Indicators 2016

State	Federal R&D obligations (\$thousands)												
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
United States	63,818,372	65,393,272	65,630,724	66,485,616	66,071,312	68,362,304	70,576,504	73,645,264	74,074,336	82,445,120	91,463,344	100,982,216	109,498,568
Alabama	2,151,670	2,149,352	1,819,210	1,931,323	2,178,776	2,213,683	2,013,282	1,806,956	1,670,058	2,456,769	2,734,837	3,211,827	3,035,516
Alaska	92,966	92,692	157,317	96,924	93,334	99,928	107,231	115,015	155,155	254,444	299,873	399,401	461,308
Arizona	638,209	535,274	800,199	902,338	706,673	732,065	993,463	1,116,946	1,151,925	1,881,000	2,279,229	2,385,404	2,643,735
Arkansas	68,848	79,185	88,868	97,702	148,166	95,296	97,448	106,422	116,333	183,867	141,267	145,361	146,682
California	15,999,143	14,883,737	11,250,614	12,600,156	12,658,120	13,730,886	12,222,581	15,600,123	14,819,382	13,001,687	19,198,496	20,169,640	19,259,424
Colorado	1,479,238	1,343,392	1,356,420	1,049,208	1,277,553	1,340,231	1,336,289	1,438,682	1,398,887	1,450,603	1,728,445	1,735,047	2,068,038
Connecticut	578,332	522,181	733,512	900,719	798,866	846,458	699,372	655,191	806,228	1,377,388	2,816,662	2,067,969	2,122,540
Delaware	43,065	56,160	50,441	57,746	64,865	48,964	45,214	52,255	69,867	83,546	80,561	95,399	89,747
District of Columbia	2,185,196	2,488,783	2,483,607	2,755,369	2,574,139	2,232,284	2,229,794	2,451,606	2,443,108	2,775,973	3,145,586	2,985,543	3,329,397
Florida	2,832,290	2,775,255	2,906,709	2,391,836	2,957,866	3,326,418	2,754,904	2,284,405	2,286,464	2,774,006	2,542,044	2,854,088	3,265,014
Georgia	2,512,567	3,035,313	5,546,365	4,366,021	4,137,785	3,919,868	3,443,943	2,023,240	2,654,039	3,438,270	2,228,988	2,133,046	1,906,523
Hawaii	150,654	113,005	140,305	139,291	147,574	150,722	164,525	198,808	234,291	435,685	428,262	413,945	488,209
Idaho	299,457	303,689	227,773	210,964	244,579	205,660	212,747	200,672	217,349	209,344	235,469	217,820	288,538
Illinois	921,924	963,774	1,088,601	1,107,430	1,094,284	1,140,163	1,160,119	1,316,085	1,496,751	1,825,057	1,728,600	1,934,661	1,880,072
Indiana	367,003	513,647	403,611	426,330	439,766	410,398	377,735	413,864	512,847	568,761	537,582	573,693	556,743
Iowa	194,674	215,777	223,823	212,096	213,370	228,180	235,818	264,060	275,560	361,455	463,444	499,484	538,270
Kansas	91,235	87,858	84,823	120,388	212,035	255,490	154,775	191,603	224,013	306,656	290,516	268,669	287,446
Kentucky	71,706	86,668	90,125	73,079	78,597	91,291	216,657	146,845	253,526	370,384	321,535	246,664	251,763
Louisiana	169,580	152,635	210,534	170,087	228,730	211,036	223,555	219,218	249,045	275,788	432,707	453,420	446,722
Maine	60,568	65,239	82,113	53,075	56,711	68,683	105,733	150,569	249,812	450,735	255,596	166,733	210,258
Maryland	5,779,695	7,238,474	6,659,458	7,343,723	6,730,700	7,328,787	7,966,775	8,094,369	8,778,541	9,473,728	7,419,965	8,027,300	12,608,595
Massachusetts	3,227,932	3,551,660	3,201,828	3,337,816	3,192,130	3,437,516	3,113,843	3,129,401	4,552,289	4,499,835	4,920,704	5,491,660	5,963,595
Michigan	876,267	877,983	771,000	683,187	707,914	735,059	755,864	839,757	1,005,043	1,196,424	1,254,129	1,693,104	1,117,762
Minnesota	456,392	445,536	475,059	570,248	679,503	609,395	806,083	885,141	797,334	900,936	1,152,784	866,231	831,259
Mississippi	255,695	259,827	255,878	209,714	250,633	289,791	280,366	351,571	413,820	415,671	627,696	1,181,001	1,598,715
Missouri	733,542	726,344	2,272,589	1,606,215	1,267,840	1,130,148	933,679	928,681	905,875	927,045	1,241,082	1,349,450	3,058,821
Montana	71,548	69,050	57,041	63,810	63,042	79,347	81,146	95,446	105,359	136,825	113,684	131,213	188,774

State	Federal R&D obligations (\$thousands)												
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Nebraska	71,143	78,477	86,496	84,680	88,454	82,981	85,042	94,089	104,079	145,189	153,805	167,955	210,458
Nevada	465,781	406,159	347,665	368,914	253,235	295,042	294,697	279,129	273,344	360,215	342,532	418,931	554,983
New Hampshire	156,135	237,604	218,891	213,243	268,476	278,697	269,466	291,723	357,828	474,423	312,305	511,948	422,144
New Jersey	1,646,784	1,422,848	1,385,692	1,297,664	1,272,576	1,318,793	1,459,570	2,661,153	1,979,346	1,673,959	2,109,112	2,087,600	2,273,723
New Mexico	2,211,251	2,309,611	1,894,083	1,959,948	1,954,981	1,933,123	1,892,068	2,068,291	2,210,494	2,890,565	2,877,019	3,090,089	3,363,175
New York	3,058,737	2,538,016	2,678,717	2,585,904	2,504,851	2,471,013	2,560,514	2,689,016	2,989,719	3,528,344	3,820,559	4,382,460	4,505,321
North Carolina	700,671	719,115	734,323	831,620	821,457	900,344	922,731	1,007,518	1,062,536	1,400,937	1,392,981	1,617,325	1,683,581
North Dakota	54,230	50,329	49,610	47,359	46,178	53,015	52,088	59,947	64,051	77,903	104,707	107,257	108,573
Ohio	1,863,371	1,921,720	1,736,435	1,809,958	1,681,723	1,879,784	5,563,023	3,687,855	2,164,645	3,051,142	2,380,350	2,967,071	2,794,181
Oklahoma	126,054	117,908	142,117	158,691	138,258	160,356	176,173	165,818	232,217	324,002	276,126	570,249	498,478
Oregon	226,514	229,375	279,164	283,411	308,179	319,587	348,626	408,099	468,167	522,640	504,034	514,212	504,810
Pennsylvania	1,794,428	2,566,507	1,983,386	2,394,246	1,921,246	1,893,723	1,886,497	1,907,139	2,396,146	2,772,116	3,244,975	3,989,278	3,731,084
Rhode Island	386,339	495,591	433,825	514,632	583,158	403,844	385,759	391,717	418,037	437,455	501,504	565,592	642,064
South Carolina	172,130	173,173	198,537	173,217	186,659	166,607	188,704	215,941	249,938	314,287	371,006	454,018	384,307
South Dakota	23,886	26,896	26,481	26,501	35,041	41,955	46,003	38,951	38,803	54,941	58,679	54,788	70,036
Tennessee	666,025	674,420	671,291	582,499	558,572	566,242	621,184	684,712	824,300	1,039,488	1,157,221	1,130,563	1,381,987
Texas	2,872,956	2,546,214	3,654,279	4,068,928	3,493,457	3,640,162	4,112,458	3,853,339	3,021,013	3,189,399	3,553,852	5,414,373	5,506,721
Utah	313,996	298,829	324,888	368,829	351,719	319,851	393,350	305,019	305,980	421,569	457,925	803,382	1,183,694
Vermont	51,314	62,143	48,465	52,950	47,089	49,885	57,656	61,707	72,030	112,704	136,374	201,149	417,091
Virginia	3,231,339	3,402,556	3,726,871	3,392,184	4,576,317	4,849,753	4,671,236	5,750,372	4,961,535	4,995,665	6,175,919	6,709,197	7,298,269
Washington	900,492	878,074	963,816	1,131,625	1,152,903	1,226,154	1,246,867	1,306,757	1,345,649	1,725,258	2,023,273	2,442,177	2,311,260
West Virginia	166,380	206,208	212,864	287,939	254,384	193,061	243,344	227,023	235,677	376,105	254,239	383,400	315,693
Wisconsin	307,651	350,775	358,252	338,475	331,373	332,214	332,956	377,801	420,839	487,948	595,516	658,448	645,875
Wyoming	41,369	48,234	36,753	35,403	37,477	28,368	33,549	35,219	35,059	36,986	39,585	42,979	47,596
Puerto Rico	NA	NA	50,502	46,695	51,614	58,943	65,733	72,709	81,016	90,790	135,294	112,225	100,904

State	Employed workers												
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
United States	118,984,376	120,929,344	123,901,656	126,063,360	128,147,856	130,989,656	133,157,256	135,145,920	136,904,560	136,978,000	136,455,792	136,944,416	138,613,904
Alabama	1,816,526	1,856,754	1,900,856	1,943,878	1,977,334	2,027,064	2,042,291	2,038,889	2,035,594	2,006,884	1,981,919	1,992,732	2,014,889
Alaska	261,624	272,709	279,471	281,889	286,252	290,845	295,823	297,354	299,146	300,731	302,580	305,723	311,643
Arizona	1,732,327	1,824,253	1,974,779	2,109,900	2,157,966	2,202,911	2,284,323	2,363,084	2,410,581	2,461,498	2,516,006	2,578,854	2,655,428
Arkansas	1,072,508	1,105,538	1,153,107	1,178,835	1,183,048	1,177,521	1,177,122	1,197,320	1,204,695	1,191,273	1,201,422	1,196,299	1,226,123
California	13,880,944	13,817,032	13,944,739	14,048,225	14,300,443	14,784,636	15,184,470	15,555,278	16,033,179	16,197,671	16,108,685	16,102,840	16,303,996
Colorado	1,734,715	1,828,679	1,952,999	2,039,647	2,063,318	2,140,797	2,227,846	2,272,197	2,294,408	2,300,113	2,307,685	2,338,207	2,393,559
Connecticut	1,689,684	1,676,578	1,657,825	1,639,060	1,645,952	1,664,912	1,682,342	1,704,134	1,721,913	1,704,774	1,697,127	1,687,924	1,686,213
Delaware	347,253	357,777	366,324	369,200	368,254	372,144	380,250	385,190	398,027	407,033	400,019	397,472	403,599
District of Columbia	289,953	288,925	285,776	273,768	263,163	260,105	267,312	286,650	293,086	290,811	286,496	285,454	287,683
Florida	6,108,967	6,274,934	6,499,945	6,656,533	6,800,128	7,015,836	7,196,659	7,359,460	7,565,981	7,669,117	7,656,349	7,783,148	8,049,908
Georgia	3,164,618	3,271,285	3,406,072	3,504,765	3,632,917	3,779,217	3,898,825	3,990,393	4,071,557	4,089,559	4,110,874	4,182,521	4,239,065
Hawaii	558,936	560,114	552,917	552,009	558,167	563,580	564,957	570,394	580,214	583,187	575,594	578,323	590,156
Idaho	497,372	520,963	555,338	568,218	584,137	601,135	616,282	619,237	628,844	643,280	646,549	651,335	668,441
Illinois	5,552,539	5,620,733	5,755,545	5,855,655	5,917,463	5,999,611	6,066,484	6,186,543	6,211,404	6,113,677	5,933,897	5,874,608	5,933,127
Indiana	2,669,811	2,789,531	2,915,071	2,991,096	2,983,209	3,011,304	3,026,444	3,029,834	3,029,073	3,007,507	3,006,811	3,014,655	2,998,068
Iowa	1,444,325	1,496,789	1,523,726	1,532,400	1,551,711	1,552,946	1,552,120	1,555,090	1,548,636	1,559,241	1,572,560	1,534,489	1,529,761
Kansas	1,250,194	1,266,875	1,282,791	1,290,159	1,300,384	1,329,751	1,366,403	1,378,867	1,356,147	1,332,034	1,341,603	1,357,867	1,383,867
Kentucky	1,656,436	1,691,208	1,727,832	1,755,029	1,771,621	1,814,492	1,844,022	1,870,873	1,883,714	1,857,238	1,833,535	1,839,873	1,857,816
Louisiana	1,767,337	1,753,214	1,790,627	1,821,954	1,857,715	1,899,922	1,932,134	1,935,457	1,929,056	1,911,818	1,881,146	1,888,974	1,916,536
Maine	597,355	583,220	578,254	599,534	622,580	623,530	623,793	642,085	655,349	648,545	645,935	649,571	654,161
Maryland	2,471,212	2,494,151	2,540,242	2,574,394	2,602,334	2,629,577	2,642,210	2,667,341	2,703,284	2,724,184	2,742,501	2,754,523	2,766,475
Massachusetts	2,912,028	2,952,583	3,007,359	3,044,696	3,097,563	3,176,134	3,230,442	3,247,012	3,240,245	3,255,134	3,250,085	3,226,981	3,220,838
Michigan	4,258,246	4,400,201	4,519,538	4,558,922	4,638,837	4,743,163	4,824,324	4,925,999	4,976,322	4,854,630	4,702,399	4,667,103	4,705,591
Minnesota	2,342,262	2,391,535	2,452,054	2,506,965	2,547,696	2,591,975	2,638,721	2,680,029	2,724,118	2,737,961	2,731,080	2,734,287	2,745,615
Mississippi	1,094,539	1,134,735	1,170,396	1,180,514	1,188,212	1,200,208	1,207,745	1,220,702	1,248,240	1,222,500	1,201,191	1,219,145	1,232,187
Missouri	2,487,204	2,517,067	2,630,692	2,728,231	2,769,622	2,800,544	2,794,971	2,809,325	2,853,891	2,862,838	2,839,467	2,850,987	2,838,872
Montana	389,391	397,102	409,630	418,081	425,468	428,555	434,868	439,993	444,137	444,909	446,640	449,266	457,423

State	Employed workers												
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Nebraska	823,384	840,575	862,936	878,414	889,438	898,310	907,202	911,444	918,370	921,003	919,401	926,315	932,515
Nevada	683,228	716,242	761,851	797,192	846,416	898,496	937,387	979,646	1,022,462	1,054,262	1,066,121	1,088,787	1,126,943
New Hampshire	569,430	579,593	595,329	606,153	613,822	627,666	643,056	656,962	669,621	673,778	670,880	677,030	689,150
New Jersey	3,723,909	3,713,835	3,782,009	3,857,473	3,946,654	4,039,773	4,051,531	4,094,559	4,123,717	4,106,225	4,095,174	4,093,686	4,138,830
New Mexico	688,598	705,726	730,712	746,645	754,003	771,069	783,831	789,677	804,103	815,642	826,086	837,667	852,612
New York	7,997,602	8,026,518	8,075,912	8,112,684	8,237,123	8,432,577	8,562,174	8,654,586	8,718,749	8,709,897	8,705,352	8,672,909	8,812,618
North Carolina	3,386,088	3,446,119	3,524,897	3,601,621	3,733,519	3,834,296	3,851,970	3,927,179	3,986,151	3,966,798	3,906,570	3,984,596	4,019,809
North Dakota	300,939	310,061	324,314	329,348	337,412	341,823	339,414	332,180	332,407	331,820	327,957	331,852	340,403
Ohio	5,097,104	5,136,613	5,239,265	5,320,351	5,362,986	5,431,051	5,460,917	5,508,439	5,556,757	5,567,130	5,516,645	5,505,858	5,502,444
Oklahoma	1,425,792	1,442,202	1,462,579	1,484,470	1,516,423	1,544,175	1,567,803	1,597,894	1,610,099	1,614,572	1,608,106	1,593,521	1,607,421
Oregon	1,439,531	1,487,375	1,557,373	1,590,664	1,621,602	1,651,241	1,677,740	1,694,881	1,725,744	1,706,904	1,697,237	1,695,906	1,703,703
Pennsylvania	5,462,170	5,491,547	5,523,612	5,562,508	5,653,830	5,746,071	5,783,197	5,810,162	5,854,551	5,881,688	5,868,607	5,821,711	5,876,997
Rhode Island	479,904	481,774	478,567	479,080	488,009	500,704	508,064	515,760	521,313	519,044	522,832	530,567	529,893
South Carolina	1,668,893	1,696,624	1,728,300	1,760,567	1,783,783	1,824,147	1,867,808	1,897,056	1,918,583	1,847,939	1,835,823	1,859,765	1,894,141
South Dakota	344,908	353,208	365,796	375,564	378,883	382,116	388,291	395,047	398,618	400,031	404,239	408,088	411,762
Tennessee	2,297,364	2,380,485	2,531,129	2,591,472	2,623,757	2,639,198	2,691,517	2,739,189	2,733,281	2,730,988	2,756,086	2,748,140	2,725,108
Texas	8,317,300	8,530,187	8,793,183	8,997,538	9,165,916	9,395,537	9,603,021	9,767,851	9,929,387	10,011,046	10,065,870	10,185,312	10,338,484
Utah	845,770	902,780	953,282	977,294	1,003,979	1,036,156	1,060,663	1,081,276	1,103,807	1,112,607	1,116,067	1,132,554	1,169,795
Vermont	288,803	296,457	301,185	306,140	310,043	315,053	322,398	326,979	322,129	325,889	329,427	331,122	334,899
Virginia	3,186,823	3,201,717	3,262,236	3,295,134	3,268,553	3,314,344	3,383,752	3,443,020	3,522,865	3,551,375	3,569,570	3,599,264	3,650,269
Washington	2,442,480	2,494,999	2,559,932	2,630,220	2,710,214	2,835,517	2,904,286	2,935,202	2,901,492	2,847,875	2,854,762	2,895,863	2,996,795
West Virginia	690,770	697,021	713,372	722,870	735,701	741,865	742,528	752,379	764,711	768,661	752,548	738,990	741,890
Wisconsin	2,549,773	2,623,303	2,701,755	2,773,322	2,827,094	2,864,372	2,870,031	2,855,212	2,868,382	2,875,585	2,861,621	2,879,779	2,882,064
Wyoming	225,504	229,895	238,226	243,076	243,205	241,684	245,490	250,605	256,414	259,089	258,650	261,970	264,321
Puerto Rico	991,960	1,010,431	1,032,283	1,076,473	1,111,538	1,132,658	1,136,060	1,142,466	1,161,033	1,128,704	1,159,455	1,184,589	1,204,535

Federal R&D obligations-employed worker (Dollars)

State	2005	2006	2007	2008	2009	2010	2011	2012	2013
United States	825	828	859	862	993	989	910	951	851
Alabama	1,516	1,057	1,076	1,355	1,571	1,770	2,616	2,576	2,345
Alaska	1,543	650	803	669	745	707	581	468	545
Arizona	1,077	859	830	841	1,115	1,237	1,061	865	845
Arkansas	129	125	137	112	137	146	143	148	138
California	1,204	1,602	1,594	1,183	1,668	1,692	1,400	1,085	952
Colorado	930	872	1,091	1,032	1,530	1,749	1,521	1,473	1,310
Connecticut	1,404	1,113	1,194	1,023	1,358	1,262	1,390	1,289	1,459
Delaware	227	265	305	340	561	324	280	263	272
District of Columbia	14,085	14,081	14,052	56,720	14,016	12,408	9,562	10,058	11,436
Florida	308	384	464	265	458	383	296	274	260
Georgia	503	390	367	303	454	362	334	261	259
Hawaii	986	612	611	568	661	647	656	628	562
Idaho	413	416	393	496	562	691	613	626	526
Illinois	353	322	339	348	462	443	484	400	390
Indiana	187	190	195	221	387	347	312	288	235
Iowa	313	344	414	395	433	576	443	392	352
Kansas	257	210	224	210	328	249	264	166	166
Kentucky	157	125	116	133	173	156	130	163	162
Louisiana	231	170	216	205	211	172	313	162	141
Maine	441	342	567	253	304	255	279	381	257
Maryland	4,459	4,474	4,152	4,631	5,663	5,594	5,484	5,373	5,350
Massachusetts	2,047	2,118	2,304	2,110	2,837	2,741	2,411	1,931	1,739
Michigan	248	360	370	412	573	598	513	520	424
Minnesota	278	448	500	504	571	390	345	344	333
Mississippi	360	460	354	356	335	360	486	452	488
Missouri	1,476	456	424	391	464	417	428	400	376
Montana	392	318	1,350	330	367	300	389	400	277

State	Federal R&D obligations/employed worker (Dollars)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Nebraska	206	190	242	214	233	253	273	268	204	
Nevada	505	354	253	246	466	323	400	393	467	
New Hampshire	734	567	477	412	657	504	583	701	421	
New Jersey	602	513	516	514	602	692	624	521	415	
New Mexico	4,124	3,727	3,869	3,882	4,250	3,881	4,021	3,920	3,982	
New York	592	591	591	509	706	639	578	537	518	
North Carolina	441	418	425	414	495	523	495	452	408	
North Dakota	343	337	325	274	286	328	314	228	227	
Ohio	534	484	647	462	842	781	676	650	458	
Oklahoma	246	165	153	155	224	261	277	264	154	
Oregon	375	286	278	318	362	381	395	355	300	
Pennsylvania	619	549	554	537	730	850	766	625	553	
Rhode Island	1,654	1,144	1,155	1,224	1,346	1,331	1,225	1,114	963	
South Carolina	255	189	210	227	346	346	256	281	197	
South Dakota	169	180	144	176	187	179	145	149	132	
Tennessee	520	517	653	592	762	754	666	736	745	
Texas	493	549	612	453	548	613	475	475	432	
Utah	867	661	749	529	923	1,367	1,394	748	684	
Vermont	776	307	319	358	450	422	368	307	307	
Virginia	2,328	2,333	2,322	2,338	2,441	2,360	2,105	2,046	1,620	
Washington	857	1,295	1,465	1,318	1,294	1,239	1,571	864	1,067	
West Virginia	1,076	393	283	289	350	422	323	352	230	
Wisconsin	226	218	229	225	312	283	261	257	227	
Wyoming	141	133	131	167	232	129	129	260	141	
Puerto Rico	83	78	70	72	87	89	95	69	82	

State	Federal R&D obligations (\$thousands)								
	2005	2006	2007	2008	2009	2010	2011	2012	2013
United States	116,328,328	119,002,944	124,682,072	124,844,680	138,672,944	137,839,280	128,115,456	135,712,496	122,592,616
Alabama	3,108,183	2,198,241	2,247,589	2,782,193	3,023,301	3,476,887	5,202,092	5,159,117	4,716,401
Alaska	495,147	212,144	263,999	222,163	247,310	235,562	196,455	159,056	185,468
Arizona	2,958,775	2,459,645	2,422,351	2,449,176	3,141,545	3,425,571	2,917,048	2,405,217	2,369,256
Arkansas	164,975	161,824	177,694	145,265	171,160	181,783	178,642	183,827	167,348
California	19,964,268	26,897,630	26,987,180	19,938,652	26,988,820	27,226,904	22,768,912	18,036,282	16,180,810
Colorado	2,264,933	2,188,732	2,797,532	2,668,121	3,862,299	4,348,333	3,815,539	3,744,745	3,394,037
Connecticut	2,399,563	1,946,644	2,116,827	1,815,401	2,364,526	2,193,459	2,425,968	2,231,082	2,516,608
Delaware	94,151	112,658	130,615	144,314	225,170	129,091	114,728	108,746	112,268
District of Columbia	4,161,778	4,193,242	4,277,707	17,537,244	4,267,934	3,890,121	3,013,539	3,339,296	3,908,128
Florida	2,590,033	3,346,486	4,078,193	2,290,401	3,734,400	3,142,237	2,481,827	2,355,839	2,282,029
Georgia	2,181,847	1,750,782	1,686,209	1,386,021	1,957,570	1,519,954	1,421,812	1,133,314	1,129,956
Hawaii	600,260	380,297	379,219	347,753	387,488	389,447	403,574	382,508	347,961
Idaho	290,256	300,045	287,474	355,408	387,978	478,995	430,212	446,936	380,814
Illinois	2,127,824	2,003,465	2,145,050	2,168,530	2,745,521	2,631,274	2,878,085	2,399,463	2,327,486
Indiana	566,818	583,214	596,645	672,029	1,109,218	988,688	903,000	838,297	692,598
Iowa	487,663	548,687	662,401	634,853	683,222	909,096	695,339	613,269	560,471
Kansas	357,797	294,492	317,801	300,406	464,230	347,529	367,780	231,602	234,254
Kentucky	296,308	240,041	222,172	252,464	319,129	287,437	241,959	308,087	306,846
Louisiana	443,708	322,644	419,401	406,131	405,553	330,803	597,294	313,774	277,976
Maine	292,125	229,196	378,810	168,009	194,231	163,103	179,969	247,753	169,887
Maryland	12,500,835	12,746,621	11,905,814	13,312,685	15,970,508	15,879,006	15,750,593	15,597,818	15,605,883
Massachusetts	6,591,926	6,875,787	7,528,907	6,883,096	9,047,013	8,747,479	7,758,388	6,279,278	5,690,763
Michigan	1,177,007	1,700,258	1,726,084	1,866,491	2,427,422	2,509,681	2,153,449	2,206,422	1,826,143
Minnesota	768,269	1,241,556	1,386,789	1,393,037	1,550,573	1,062,556	949,293	961,092	939,742
Mississippi	438,243	554,898	433,902	435,207	384,647	421,613	588,083	542,610	567,723
Missouri	4,201,656	1,315,557	1,220,627	1,111,285	1,284,600	1,151,046	1,193,266	1,124,477	1,057,857
Montana	182,053	151,336	653,627	159,461	171,494	139,222	181,657	190,191	134,505

State	Federal R&D obligations (\$thousands)								
	2005	2006	2007	2008	2009	2010	2011	2012	2013
Nebraska	193,069	178,121	230,075	204,579	220,221	239,814	262,148	261,912	200,523
Nevada	593,264	436,217	321,050	312,624	558,210	379,814	478,099	481,734	584,582
New Hampshire	513,830	400,408	339,923	294,312	458,369	350,471	406,012	490,721	296,213
New Jersey	2,524,843	2,172,700	2,191,960	2,192,726	2,492,168	2,852,962	2,582,709	2,166,953	1,726,856
New Mexico	3,593,366	3,315,034	3,478,018	3,502,888	3,695,553	3,337,955	3,456,208	3,378,591	3,421,466
New York	5,320,079	5,368,152	5,367,562	4,651,187	6,242,013	5,602,222	5,042,120	4,727,247	4,605,210
North Carolina	1,806,115	1,771,359	1,828,443	1,772,567	2,021,757	2,151,161	2,060,306	1,922,260	1,759,196
North Dakota	117,921	117,851	115,779	98,326	101,155	119,582	117,703	88,065	89,515
Ohio	2,961,450	2,723,931	3,660,876	2,580,353	4,459,527	4,098,787	3,554,656	3,436,331	2,425,734
Oklahoma	400,746	271,137	253,227	260,753	369,962	429,597	462,536	449,813	262,352
Oregon	650,069	510,101	506,417	581,074	635,230	675,292	711,081	632,076	528,961
Pennsylvania	3,677,377	3,299,694	3,359,930	3,279,378	4,297,552	4,963,404	4,512,982	3,724,886	3,295,421
Rhode Island	888,779	622,502	627,776	643,721	679,453	669,846	610,133	557,413	486,437
South Carolina	492,735	373,812	421,688	453,003	661,614	662,206	496,684	555,367	397,477
South Dakota	69,982	75,926	61,925	76,379	79,313	74,962	61,087	63,168	56,607
Tennessee	1,425,989	1,489,072	1,907,931	1,689,925	2,081,442	2,104,843	1,898,595	2,111,931	2,118,645
Texas	5,187,008	5,914,690	6,692,848	5,029,588	6,031,095	6,896,125	5,475,367	5,619,673	5,234,156
Utah	1,058,179	845,844	991,251	699,929	1,168,540	1,708,887	1,756,403	972,325	918,647
Vermont	262,601	105,544	108,366	120,985	151,369	142,251	124,444	103,372	102,954
Virginia	8,746,472	8,994,337	9,088,208	9,282,197	9,381,331	9,111,678	8,287,063	8,129,999	6,487,535
Washington	2,641,154	4,087,134	4,751,106	4,339,544	4,156,709	3,915,467	4,931,381	2,757,414	3,433,474
West Virginia	807,540	301,416	219,100	224,575	262,617	312,779	239,807	263,276	171,449
Wisconsin	651,821	635,675	671,413	660,915	885,729	795,573	742,243	734,288	654,033
Wyoming	37,538	36,169	36,583	47,358	65,152	36,720	37,193	75,589	41,207
Puerto Rico	101,433	98,790	85,850	84,929	96,101	94,795	97,351	71,336	82,563

State	Employed workers								
	2005	2006	2007	2008	2009	2010	2011	2012	2013
United States	141,000,912	143,729,344	145,156,128	144,860,352	139,594,704	139,408,096	140,766,480	142,665,760	144,137,568
Alabama	2,049,791	2,080,233	2,089,127	2,053,477	1,924,747	1,964,559	1,988,753	2,002,638	2,011,596
Alaska	320,811	326,542	328,579	332,285	331,792	333,416	338,268	339,645	340,332
Arizona	2,748,372	2,864,385	2,917,117	2,913,903	2,817,577	2,769,454	2,749,235	2,779,187	2,803,974
Arkansas	1,275,448	1,294,906	1,296,572	1,300,017	1,252,399	1,242,496	1,248,726	1,239,717	1,211,317
California	16,582,651	16,789,422	16,931,590	16,854,482	16,182,572	16,091,945	16,260,099	16,630,055	17,002,894
Colorado	2,435,082	2,509,729	2,565,218	2,585,243	2,524,443	2,486,404	2,507,786	2,542,510	2,590,608
Connecticut	1,709,382	1,749,191	1,773,159	1,774,681	1,740,971	1,737,449	1,744,929	1,730,415	1,724,489
Delaware	414,465	425,399	428,312	424,914	401,312	397,869	409,949	413,336	412,788
District of Columbia	295,484	297,786	304,426	309,192	304,500	313,508	315,159	332,013	341,753
Florida	8,398,974	8,709,522	8,789,770	8,637,164	8,148,123	8,193,659	8,372,024	8,595,376	8,782,803
Georgia	4,341,223	4,489,128	4,597,640	4,575,010	4,311,854	4,202,052	4,262,403	4,344,683	4,367,926
Hawaii	608,957	621,573	620,535	612,120	586,522	602,282	615,117	609,088	619,528
Idaho	702,291	721,346	731,235	716,653	690,722	692,826	701,645	714,051	724,121
Illinois	6,033,913	6,230,845	6,334,010	6,238,611	5,943,229	5,937,047	5,949,053	5,992,475	5,960,851
Indiana	3,029,959	3,072,113	3,061,042	3,041,828	2,864,985	2,845,608	2,892,327	2,906,201	2,947,114
Iowa	1,560,169	1,596,530	1,599,332	1,608,695	1,579,248	1,577,447	1,570,433	1,565,715	1,593,835
Kansas	1,392,024	1,402,796	1,420,449	1,430,628	1,413,873	1,394,958	1,394,230	1,398,681	1,407,562
Kentucky	1,881,943	1,913,472	1,922,220	1,900,683	1,847,126	1,844,650	1,862,691	1,889,568	1,892,108
Louisiana	1,921,385	1,899,981	1,944,038	1,982,381	1,923,884	1,919,852	1,910,703	1,932,595	1,964,932
Maine	663,132	669,554	667,781	663,158	639,954	638,630	644,091	650,024	660,259
Maryland	2,803,487	2,849,354	2,867,348	2,874,987	2,820,245	2,838,492	2,871,965	2,903,161	2,917,212
Massachusetts	3,220,089	3,246,316	3,268,096	3,261,408	3,189,010	3,190,818	3,218,116	3,251,993	3,272,002
Michigan	4,738,902	4,721,085	4,658,939	4,529,289	4,233,803	4,194,041	4,198,276	4,244,118	4,306,448
Minnesota	2,762,733	2,772,115	2,773,704	2,766,342	2,713,426	2,721,194	2,753,540	2,789,861	2,819,252
Mississippi	1,218,825	1,205,906	1,224,059	1,220,991	1,148,930	1,170,879	1,209,971	1,200,155	1,162,756
Missouri	2,847,006	2,882,757	2,879,647	2,842,845	2,766,711	2,763,535	2,790,271	2,807,796	2,813,839
Montana	464,907	476,377	484,189	483,347	466,713	463,998	466,448	476,052	485,854

State	Employed workers								
	2005	2006	2007	2008	2009	2010	2011	2012	2013
Nebraska	935,906	939,874	949,494	956,759	945,648	947,360	959,345	975,974	983,491
Nevada	1,173,709	1,233,287	1,270,572	1,272,187	1,196,758	1,174,774	1,194,061	1,224,415	1,252,326
New Hampshire	700,026	706,777	712,008	714,104	697,802	695,135	696,326	699,589	704,294
New Jersey	4,194,895	4,236,485	4,251,815	4,263,965	4,138,570	4,121,455	4,140,464	4,162,068	4,164,444
New Mexico	871,248	889,448	898,998	902,411	869,491	860,154	859,603	861,829	859,270
New York	8,986,859	9,077,529	9,088,207	9,139,080	8,844,486	8,769,723	8,727,961	8,796,100	8,890,997
North Carolina	4,091,039	4,234,095	4,300,304	4,281,713	4,087,105	4,115,629	4,160,613	4,251,021	4,310,422
North Dakota	343,508	349,821	355,766	359,333	353,455	364,053	375,034	385,718	394,891
Ohio	5,541,082	5,624,435	5,657,718	5,580,843	5,297,098	5,247,050	5,261,833	5,288,262	5,298,591
Oklahoma	1,627,110	1,647,098	1,655,490	1,681,081	1,652,023	1,648,138	1,669,281	1,705,123	1,706,785
Oregon	1,731,845	1,785,044	1,822,772	1,827,352	1,753,682	1,773,076	1,802,477	1,781,391	1,761,021
Pennsylvania	5,940,570	6,006,634	6,064,063	6,109,645	5,885,351	5,840,887	5,887,860	5,956,662	5,963,909
Rhode Island	537,194	544,357	543,401	525,941	504,951	503,216	498,250	500,283	505,370
South Carolina	1,929,233	1,973,337	2,005,686	1,996,409	1,910,670	1,915,045	1,942,109	1,978,328	2,013,452
South Dakota	414,209	421,483	430,011	432,925	423,993	419,355	419,998	423,644	428,162
Tennessee	2,743,383	2,878,455	2,920,352	2,853,746	2,733,113	2,792,063	2,849,677	2,868,057	2,842,200
Texas	10,523,257	10,774,490	10,941,413	11,104,115	11,008,903	11,244,632	11,527,028	11,827,485	12,104,092
Utah	1,220,617	1,279,328	1,324,060	1,322,089	1,266,009	1,249,814	1,260,104	1,299,910	1,343,885
Vermont	338,553	343,865	339,547	338,273	336,104	337,488	338,411	337,120	335,680
Virginia	3,757,592	3,855,633	3,914,087	3,970,428	3,842,516	3,860,386	3,936,860	3,974,519	4,004,513
Washington	3,082,399	3,156,626	3,243,308	3,291,309	3,211,649	3,160,544	3,139,999	3,190,015	3,216,966
West Virginia	750,561	766,399	773,990	777,560	751,165	740,910	742,413	748,359	745,674
Wisconsin	2,878,086	2,914,150	2,936,452	2,940,438	2,834,335	2,814,393	2,841,465	2,857,594	2,876,712
Wyoming	266,630	272,336	278,486	284,310	281,150	283,744	289,099	291,177	292,260
Puerto Rico	1,221,818	1,270,693	1,232,266	1,187,398	1,101,862	1,061,313	1,027,497	1,027,014	1,003,464

